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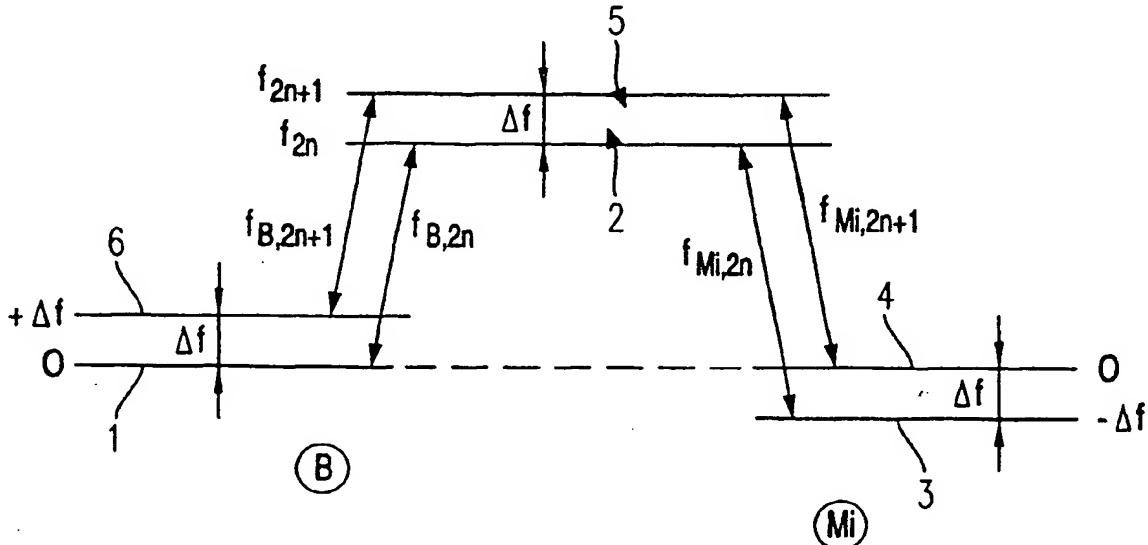
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(51) Internationale Patentklassifikation<sup>7</sup>: H04B 1/713 (72) Erfinder; und  
(21) Internationales Aktenzeichen: PCT/DE01/04961 (75) Erfinder/Anmelder (nur für US): BOETZEL, Ulrich [DE/DE]; Gelsenstr. 37, 41564 Kaarst (DE).  
(22) Internationales Anmeldedatum: 28. Dezember 2001 (28.12.2001) NEUBAUER, Andre [DE/DE]; Marienstr. 32, 47807 Krefeld (DE). KRANZ, Christian [DE/DE]; Ina-Seidel-Str. 111, 40885 Ratingen Lintorf (DE).  
(25) Einreichungssprache: Deutsch (74) Anwalt: LANGE, Thomas; Patentanwälte Lambsdorff & Lange, Dingolfinger Strasse 6, 81673 München (DE).  
(26) Veröffentlichungssprache: Deutsch (81) Bestimmungsstaaten (national): CN, JP, US.  
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(71) Anmelder (für alle Bestimmungsstaaten mit Ausnahme von US): INFINEON TECHNOLOGIES AG [DE/DE]; St.-Martin-Str. 53, 81669 München (DE).

[Fortsetzung auf der nächsten Seite]

(54) Title: FREQUENCY SCHEMA FOR DATA TRANSMISSION SYSTEMS

(54) Bezeichnung: FREQUENZSCHEMA FÜR DATENÜBERTRAGUNGSSYSTEME



A3

(57) Abstract: The invention relates to a data transmission system comprising at least two stations (B, Mi) between which data bursts are exchanged via radio. A frequency hop is provided between the first channel mid-frequency ( $f_{2n}$ ) which is used for the transmission and the second channel mid-frequency ( $f_{2n+1}$ ) which is used for the feedback transmission, the height of said frequency hop corresponding to the intermediate frequency ( $\Delta f$ ). The local oscillators must not be tuned to new frequencies between the transmission and the feedback transmission.

(57) Zusammenfassung: Die Erfindung betrifft ein Datenübertragungssystem mit mindestens zwei Stationen (B, Mi), zwischen denen Datenbursts über Funk ausgetauscht werden. Zwischen der für die Hinübertragung verwendeten ersten Kanalmittensfrequenz ( $f_{2n}$ ) und der für die Rückübertragung verwendeten zweiten Kanalmittensfrequenz ( $f_{2n+1}$ ) ist ein Frequenzsprung vorgesehen, dessen Höhe der Zwischenfrequenz ( $\Delta f$ ) entspricht. Dadurch müssen die lokalen Oszillatoren zwischen der Hinübertragung und der Rückübertragung nicht auf neue Frequenzen eingeschwungen werden.

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**Veröffentlicht:**

— mit internationalem Recherchenbericht

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Recherchenberichts:

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Zur Erklärung der Zweibuchstaben-Codes und der anderen  
Abkürzungen wird auf die Erklärungen ("Guidance Notes on  
Codes and Abbreviations") am Anfang jeder regulären Ausgabe  
der PCT-Gazette verwiesen.

Docket # IDL-I0045

Applic. #

Applicant: Ulrich Bötzel et al.

Lerner and Greenberg, P.A.

Post Office Box 2480

Hollywood, FL 33022-2480

Tel: (954) 925-1100 Fax: (954) 925-1101

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/DE 01/04961

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04B1/713

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

PAJ, EPO-Internal, WPI Data, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 017, no. 183 (E-1348), 9 April 1993 (1993-04-09) & JP 04 334222 A (JAPAN RADIO CO LTD), 20 November 1992 (1992-11-20) abstract	1-4, 11-18
A	US 5 887 023 A (MABUCHI TETSUO) 23 March 1999 (1999-03-23) column 1, line 14 -column 3, line 48; figures 1,2	5,6,8, 10,19,20
A		1-20

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the international search

20 August 2002

Date of mailing of the international search report

27/08/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl  
Fax: (+31-70) 340-3016

Authorized officer

Nilsson, M

## INTERNATIONAL SEARCH REPORT

## Information on patent family members

Int'l Application No
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Patent document cited in search report	Publication date		Patent family member(s)	Publication date
JP 04334222	A	20-11-1992	JP 2831154 B2	02-12-1998
US 5887023	A	23-03-1999	JP 2812318 B2 JP 9214404 A	22-10-1998 15-08-1997

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APPLICANT: Ulrich Bökel et al.

LERNER AND GREENBERG PA.

P.O. BOX 2480

HOLLYWOOD, FLORIDA 33022

TEL. (954) 925-1100